



CLAIM

Claim Adjustments: [Cancelled Claims 1 - 13]

[1. A conduit length measuring mechanical electronic tool that is a combination of a sheave, magnetic switch, counter and foot meter used to measure conduit lengths for the purpose of calculating cable, conductor, and data fiber lengths, with the use of a jet-line or string. Cancelled]

[2. A device according to Claim 1 is a sheave constructed to be of a certain diameter shape, size and weight that produces the most accurate results using a jet-line or string, the dimensions and weight of this sheave are important, as it keeps the jet-line from tangling, dragging, or overlapping at any rate of speed, on this sheave is a permanent magnet set in a precise spot that works with the magnetic switch to insure the correct footage. Cancelled]

[3. A device according to Claim 1 is the magnetic switch, with the use of a permanent magnet on the sheave and this magnetic switch that is attached at a precise location on the sheave frame, the magnetic switch counts the rotations of the sheave, sending it to the counter, the counter totals each count and displays it on the foot meter. Cancelled]

[4. A device according to Claim 1 is a four decade counter high speed IC chip, on the input from the magnetic switch it counts and sends the correct digit number to the foot meter. Cancelled]

[5. A device according to Claim 1 is a seven segment, four digit LED foot meter, the foot meter gives the final reading in a digit display of the footage counted. Cancelled]

[6. A conduit length measuring mechanical electronic tool used to measure electrical conduit length and 90 degree elbows kicks offsets radius of bends, comprising ;

A sheave of translocate rounded sidewalls deep grooved center circumference rod shaft and locknuts nylon bushings on cpvc tube frame

A permanent magnet attached to said sheave aligns parallel to magnetic switch upon passing of said sheave's rotation engaging a movement of jetline offset to center circumference alignment,

A magnetic switch mounted to cpvc tube frame used to send signal to debounce circuit to send signal to counter circuit to count rotations of said sheave's said permanent magnet passing and display footage of measured length of radius bends included in conduit length measurement. Cancelled]

[7. A conduit length measuring mechanical electronic tool according to Claim 6 wherein

A said sheave engaging a jetline upon rotation of translocation of jetline from center circumference to rounded sidewall to align with said permanent magnet during straight run of travel in a length of conduit at high speed run. Cancelled]

[8. A conduit length measuring mechanical electronic tool according to Claim 6 wherein

A said sheave engaging a jetline upon impact of a radius of bend a translocation of jetline from rounded sidewall a degression to center circumference a slip of jetline an additive count to radius of bend during a radius in a run of travel in a length of conduit a low speed run in radius of bend additive length a change in travel speed a change of location of jetline. Cancelled]

[9. A conduit length measuring mechanical electronic tool according to Claim 7 and Claim 8 wherein

A said sheave engaging a jetline movement to translocate jetline at change of speed travel in a run of conduit to give additive count of radius of bends jetline slips but said sheave does not it counts during jetline slip a additive measurement is made. Cancelled]

[10. A conduit length measuring mechanical electronic tool according to Claim 6 wherein

Said sheave of 1 ounce weight and shape of rounded sidewall of deep grooved center circumference to control jetline movement offset to center grooved center circumference and timing during radius run upon translocation time when jetline impacts radius and exits radius timing. Cancelled]

[11. A conduit length measuring electronic tool according to Claim 6 wherein

Said sheave on rod shaft axle attached locknuts a tension adjustment of said sheave to limit additive count of radius a rotation control of said sheave tension adjusts a limit of one revolution per slip.
Cancelled]

[12. A conduit length measuring electronic tool according to Claim 10 wherein

A said permanent magnet of weight and size a cut magnet to limit weight of said sheave to accomodate rotation movement and also limit vibration of high speed rotation to balance this said sheave weight of said permanent magnet must also control additive count due to added weight to said sheave, and centrifugal force to limit rotation upon slip of jetline adjusted by calibrating size and weight of said permanent magnet. Cancelled]

[13. A conduit length measuring mechanical electronic tool according to Claim 6 wherein

A said magnetic switch to signal said debounce circuit to signal said counter circuit to give footage of count of revolutions as passing said permanent magnet as said sheave rotates upon engaging jetline movement and to give feetmeter readout and display length of electrical conduit including 90 degree elbows, kicks, offsets and bends. Cancelled]

Added New Claims 14 - 16

What is claimed:

14. A conduit length measuring mechanical electronic tool for determining the length of an electrical conduit comprising;

a rotational length measuring assembly engaging a jetline,
the rotational length measuring assembly having a rotating magnetically coupled circuit to generate signal in response to jetline movement; and

a counter and circuits for receiving signal and processing signal and to calculate length in feet of jetline movement passing through assembly.

15. A conduit length measuring mechanical electronic tool of claim 14, wherein rotational length measuring assembly further comprises;

a rotating sheave of rounded side walls, deep grooved center circumference, engaging a jetline and rotating in response to jetline movement; and

a permanent magnet attached to rounded sidewall of the sheave, magnetically coupled to a magnetic switch to generate a signal of rotations.

16. A conduit length measuring mechanical electronic tool of claim 14, wherein the counter and circuits for receiving the signal further comprises;

a debounce circuit to limit the generated signal of the magnetic switch; and

a digital feet meter display to view measurement of jetline movement in length of feet of measured conduit.